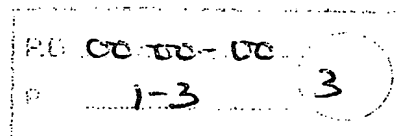


XP-002296657



Reaction

Reaction ID **2768**
 Reactant BRN **102378** oxirane
 Product BRN **505945** ethane-1,2-diol
 No. of Reaction Details **8**

Reaction Details 1 of 8

Reaction Classification Preparation
 Reagent water
 Temperature 200 C
 Pressure 7355.08 - 18387.7 Torr

Note 1 Handbook
 Ref. 1 **1366368**; Journal; Denner; Ullmann; 3; 1953; 138.
 Ref. 2 **1144438**; Patent; I.G.Farbenind.; US 1976677; 1929.
 Ref. 3 **1144439**; Patent; I.G.Farbenind.; FR 697786.
 Ref. 4 **1144440**; Patent; I.G.Farbenind.; DE 595174; 1929; FTFVA6; Fortschr. Teerfarbenfabr. Verw. Industriezweige; DE; GE; 19; 210.
 Ref. 5 **1366386**; Book Review / Secondary Ref.; Reppe, W.; Acetylene Chemistry <New York 1949> S.21.
 Ref. 6 **1366387**; Book Review / Secondary Ref.; Rector; Toussaint in G.O. Curme; F. Johnston; Glycols <New York 1952> S.20.

Reaction Details 2 of 8

Reaction Classification Preparation
 Reagent diluted sulfuric acid
 water

Note 1 Handbook
 Ref. 1 **1366375**; Journal; Sherwood; Petr. Refiner; 28; 3; 131, 134; Chem. Abstr.; 1949; 6976.
 Ref. 2 **1366376**; Journal; Matignon; Moureu; Dode; BSCFAS; Bull. Soc. Chim. Fr.; <5>1; 1934; 1316.
 Ref. 3 **1366377**; Patent; U.S. Ind. Chem. Inc.; US 2409441; 1943.
 Ref. 4 **1366378**; Patent; U.S. Ind. Alcohol Co.; US 2135271; 1937.
 Ref. 5 **1366379**; Patent; Standard Alcohol Co.; US 2255411; 1937.

Reaction Details 3 of 8

Reaction Classification Preparation
 Reagent trichloroacetic acid
 water
 Temperature 60 C
 Other Conditions neben geringen Mengen Polyäthylenglykolen

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Note 1
Ref. 1

Handbook
1366374; Patent; Solvay & Cie.; US 2472417; 1947.

Reaction Details 4 of 8

Reaction Classification
Reagent

Preparation
silver oxide
fired clay
water
170 - 172 C
in der Dampfphase

Note 1
Ref. 1

Handbook
1366372; Journal; Cartmell et al.; IECHAD; Ind.Eng.Chem.;
40; 1948; 392.

Reaction Details 5 of 8

Reaction Classification
Reagent

Preparation
sulfur dioxide
water

Note 1
Ref. 1

Handbook
1423378; Patent; Dow Chem.Co.; US 2807651; 1956.

Reaction Details 6 of 8

Reaction Classification
Reagent

Preparation
ions-exchanger/s
water

Note 1
Ref. 1

Handbook
607451; Journal; Othmer; Thakar; IECHAD; Ind.Eng.Chem.;
50; 1958; 1235.

Ref. 2

607452; Journal; Hamilton; Metzner; IECHAD; Ind.Eng.Chem.
; 49; 1957; 838.

Ref. 3

1423377; Journal; Reed et al.; IECHAD; Ind.Eng.Chem.; 48;
1956; 205.

Reaction Details 7 of 8

Reaction Classification
Reagent

Preparation
sulfuric acid
water

Note 1
Ref. 1

Handbook
1319973; Patent; Chem.Fabr.Kalk; DE 416604; FTFVA6;
Fortschr.Teerfarbenfabr.Verw.Industriezweige; DE; GE; 15;
93.

Reaction Details 8 of 8

Reaction Classification
Reagent
Temperature
Pressure

Preparation
water
60 C
4.41305*106 Torr

Note 1

Handbook

Ref. 1

1694691; Journal; Starkweather; JACSAT; J.Amer.Chem.Soc.
; 56; 1934; 1870, 1872.

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